SEQUENCE LISTING

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<120>  METHODS AND COMPOUNDS FOR MODULATING MELANOCORTIN RECEPTOR LIGAND
BINDING AND ACTIVITY


<130>  407T-980910US


<150>  PCT/US99/25201

<151>  1999-10-27


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<151>  2000-05-09


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<160>  54


<170>  PatentIn version 3.0


<210>  1

<211>  132

-1-

<212> PRT

<213> Homo sapiens


<400> 1

Met Leu Thr Ala Ala Val Leu Ser Cys Ala Leu Leu Leu Ala Leu Pro
1               5                   10                  15

Ala Thr Arg Gly Ala Gln Met Gly Leu Ala Pro Met Glu Gly Ile Arg
            20                  25                  30

Arg Pro Asp Gln Ala Leu Leu Pro Glu Leu Pro Gly Leu Gly Leu Arg
        35                  40                  45

Ala Pro Leu Lys Lys Thr Thr Ala Glu Gln Ala Glu Glu Asp Leu Leu
        50                  55                  60

Gln Glu Ala Gln Ala Leu Ala Glu Val Leu Asp Leu Gln Asp Arg Glu
65                  70                  75                  80

Pro Arg Ser Ser Arg Arg Cys Val Arg Leu His Glu Ser Cys Leu Gly
                85                  90                  95

Gln Gln Val Pro Cys Cys Asp Pro Cys Ala Thr Cys Tyr Cys Arg Phe
            100                 105                 110

Phe Asn Ala Phe Cys Tyr Cys Arg Lys Leu Gly Thr Ala Met Asn Pro
            115                 120                 125

Cys Ser Arg Thr
    130

<210> 2

<211> 46

<212> PRT

<213> Homo sapiens


<400> 2

Cys Val Arg Leu His Glu Ser Cys Leu Gly Gln Gln Val Pro Cys Cys
1               5                   10                  15

Asp Pro Cys Ala Thr Cys Tyr Cys Arg Phe Phe Asn Ala Phe Cys Tyr
            20                  25                  30

Cys Arg Lys Leu Gly Thr Ala Met Asn Pro Cys Ser Arg Thr
        35                  40                  45

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<210> 3

<211> 33

<212> PRT

<213> Homo sapiens


<400> 3

Cys Val Arg Leu His Glu Ser Cys Leu Gly Gln Gln Val Pro Cys Cys
1               5                   10                  15

Asp Pro Ala Ala Thr Cys Tyr Cys Arg Phe Phe Asn Ala Phe Cys Tyr
            20                  25                  30

Cys


<210> 4

<211> 34

<212> PRT

<213> Artificial


<220>

<223> synthetic mini-AGRP

<400> 4

Cys Val Arg Leu His Glu Ser Cys Leu Gly Gln Gln Val Pro Cys Cys
1               5                   10                  15

Asp Pro Ala Ala Thr Cys Tyr Cys Arg Phe Phe Asn Ala Phe Cys Tyr
            20                  25                  30

Cys Arg


<210> 5

<211> 34

<212> PRT

<213> Artificial

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<221> MOD_RES

<222> (1)..(1)

<223> C blocked with acetyl


<220>

<221> MOD_RES

<222> (34)..(34)

<223> R blocked with amino


<400> 5

Cys Val Arg Leu His Glu Ser Cys Leu Gly Gln Gln Val Pro Cys Cys
1               5                   10                  15

Asp Pro Ala Ala Thr Cys Tyr Cys Arg Phe Phe Asn Ala Phe Cys Tyr
            20                  25                  30

Cys Arg


<210> 6

<211> 6

<212> PRT

<213> artificial


<220>

<223> AGRP fragment

<400> 6

Val Arg Leu His Glu Ser
1               5

<210> 7

<211> 6

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<220>

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<400> 7

Leu Gly Gln Gln Val Pro
1               5

<210> 8

<211> 3

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<400> 8

Arg Phe Phe
1

<210> 9

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<223> Xaa is any amino acid

<210>

<221> misc_feature

<222> (34)..(34)

<223> R is optional


<400> 9

Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys
1               5                    10                      15

Asp Pro Xaa Ala Thr Cys Tyr Cys Xaa Xaa Xaa Asn Ala Phe Cys Tyr
            20                  25                  30

Cys Arg


<210> 10

<211> 6

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<223> Xaa is any amino acid


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Xaa Xaa Xaa Xaa Xaa Xaa
1               5

<210> 11

<211> 6

<212> PRT

<213> Artificial

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<2.3> AGRP fragment

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<400> 11

Val Xaa Xaa Xaa Xaa Xaa
1               5

<210> 12

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<223> Xaa is any amino acid

<400> 12

Xaa Arg Xaa Xaa Xaa Xaa
1               5

<210> 13

<211> 6

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<223> AGRP fragment

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<223> Xaa is any amino acid


<400> 13

Xaa Xaa Leu Xaa Xaa Xaa
1               5

<210> 14

<211> 6

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<223> Xaa is any amino acid


<400> 14

Xaa Xaa Xaa His Xaa Xaa
1               5

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<400> 15

Xaa Xaa Xaa Xaa Xaa Ser
1               5

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<400> 16

Val Arg Xaa Xaa Xaa Xaa
1               5

<210> 17

<211> 6

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<221> misc_feature

<223> Xaa is any amino acid


<400> 17

Val Xaa Leu Xaa Xaa Xaa
1               5

<210> 18

<211> 6

<212> PRT

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<221> misc_feature

<223> Xaa is any amino acid


<400> 18

Val Xaa Xaa His Xaa Xaa
1               5

<210> 19

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<212> PRT

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<221> misc_feature

<223> Xaa is any amino acid

<400> 19

Val Xaa Xaa Xaa Glu Xaa
1               5

<210> 20

<211> 6

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<223> Xaa is any amino acid

<400> 20

Val Xaa Xaa Xaa Xaa Ser
1               5

<210> 21

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<223> Xaa is any amino acid


<400> 21

Xaa Arg Leu Xaa Xaa Xaa
1               5

<210> 22

<211> 6

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<223> Xaa is any amino acid


<400> 22

Xaa Arg Xaa His Xaa Xaa
1               5

<210> 23

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<223> Xaa is any amino acid

<400> 23

Xaa Arg Xaa Xaa Glu Xaa
1               5

<210> 24

<211> 6

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<223> Xaa is any amino acid

<400> 24

Xaa Arg Xaa Xaa Xaa Ser
1               5

<210> 25

<211> 6

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<223> Xaa is any amino acid

<400> 25

Xaa Xaa Leu His Xaa Xaa
1                     5

<210>  25

<211>  6

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<223>  Xaa is any amino acid


<400>  26

Xaa Xaa Leu Xaa Xaa Xaa
1                     5

<210>  27

<211>  6

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<223>  Xaa is any amino acid

<400> 27

Xaa Xaa Leu Xaa Glu Xaa
1               5

<210> 28

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<223> Xaa is any amino acid


<400> 28

Xaa Xaa Leu Xaa Xaa Ser
1               5

<210> 29

<211> 6

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<223> Xaa is any amino acid


<400> 29

Xaa Xaa Xaa His Glu Xaa
1                   5

<110>   30

<111>   6

<112>   PRT

<113>   Artificial


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<123>   AGRP fragment

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<223>   Xaa is any amino acid


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Xaa Xaa Xaa His Xaa Ser
1                   5

<110>   31

<211>   6

<212>   PRT

<213>   Artificial


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<223>   Xaa is any amino acid


<400>   31

Xaa Xaa Xaa Xaa Glu Ser
1                   5

<210> 32

<211> 6

<212> PRT

<213> Artificial


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<223> Xaa is any amino acid


<400> 32

Val Arg Leu Xaa Xaa Xaa
1               5

<210> 33

<211> 6

<212> PRT

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<221> misc_feature

<223> Xaa is any amino acid


<400> 33

Val Xaa Leu His Xaa Xaa
1               5

<210> 34

<211> 6

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<223> Xaa is any amino acid


<400> 34

Val Arg Leu His Glu Ser
1                   5

<210> 35

<211> 6

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<223> Xaa is any amino acid


<400> 35

Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 36

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<400> 36

Leu Gly Gln Gln Val Pro
1               5

<210> 37

<211> 6

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<223> Xaa is any amino acid


<400> 37

Leu Xaa Xaa Xaa Xaa Xaa
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<210> 38

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<223> Xaa is any amino acid

<400> 38

Xaa Gly Xaa Xaa Xaa Xaa
1               5

<210> 39

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<223> Xaa is any amino acid

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Xaa Xaa Gln Xaa Xaa Xaa
1               5

<210> 40

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<223> Xaa is any amino acid

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1               5

<210> 41

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<223> Xaa is any amino acid

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Xaa Xaa Xaa Xaa Val Xaa
1               5

<210> 42

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<223> Xaa is any amino acid


<400> 42

Xaa Xaa Xaa Xaa Xaa Pro
1               5

<210> 43

<211> 6

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<223> Xaa is any amino acid


<400> 43

Leu Gly Xaa Xaa Xaa Xaa
1               5

<210> 44

<211> 6

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<223> Xaa is any amino acid


<400> 44

Leu Xaa Gln Xaa Xaa Xaa
1               5

<210> 45

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<223> Xaa is any amino acid


<400> 45

Leu Xaa Xaa Gln Xaa Xaa
1               5

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<223> Xaa is any amino acid


<400> 46

Leu Xaa Xaa Xaa Val Xaa
1               5

<210> 47

<211> 6

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<223> AGRP fragment

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<223> Xaa is any amino acid


<400> 47

Leu Xaa Xaa Xaa Xaa Pro
1               5

<210> 48

<211> 6

<212> PRT

<213> Artificial


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<223> AGRP fragment

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<221> misc_feature

<223> Xaa is any amino acid


<400> 48

Leu Gly Gln Xaa Xaa Xaa
1               5

<210> 49

<211> 3

<212> PRT

<213> Artificial


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<223> Xaa is any amino acid


<400> 49

Arg Xaa Xaa
1

<210> 50

<211> 3

<212> PRT

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<221> misc_feature

<223> Xaa is any amino acid


<400> 50

Xaa Phe Xaa
1

<210> 51

<211> 3

<212> PRT

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<223> Xaa is any amino acid


<400> 51

Arg Phe Xaa
1

<210> 52

<211> 3

<212> PRT

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<223> Xaa is any amino acid

<400> 52

Arg Xaa Phe
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<210> 53

<211> 3

<212> PRT

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<221> misc_feature

<223> Xaa is any amino acid

<400> 53

Xaa Phe Phe
1

<210> 54

<211> 6

<212> PRT

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<221> misc_feature

<223> Xaa is any amino acid

<400> 54

Arg Phe Phe Asn Ala Phe
1               5